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STOLOV, A.L.; MOCHALOV, K.II.

Investigating elementary processes and chemical reactions in a torch discharge. Fiz.sbor. no.4:323-327 '58. (MIRA 12:5)

1. Kazanskiy gosudarstvennyy universitet imeni V.I.Ul'yanova-Lenina i Kazanskiy khimiko-tekhnologicheskiy institut imeni S.M.Kiroya.

(Electric discharges through gases)

MOCHALOV, K.N.; SHIFRIN, Kh.V.; BOGONOSTSEV, A.S.

Boron hydrides, new reagents in analytical chemistry. Report
No.1. Trudy KKHTI no.26:135-139 '59. (MIRA 15:5)

1. Kafedra analiticheskoy khimii Kazunskogo khimiko-tekhnologicheskogo instituta imeni S.M.Kirova.

(Boron hydrides) (Chemistry, Analytical)

MOCHALOV, K.N.; BOGON STSEV, A.S.; SHIFRIN, Kh.V.

Boron hydrides, new reagents in analytical chemistry. Report No.2: Production of pure sodium and potassium boron hydrides. Trudy (MIRA 15:5)

1. Kafedra analiticheskoy khimii Kazanskogo khimiko-tekhnologicheskogo instituta imeni S.M.Kirova.
(Boron hydrides) (Chemistry, Analytical)

MOCHALOV, K.N.; BOGONOSTSEV, A.S.; SHIFRIN, Kh.V.; Prinimala uchastiye:

Boron hydrides, new reagents in analytical chemistry. Report No.3: Boron hydride method for determining iron. Trudy KKHTI no.26:145-150 159. (MIRA 15:5)

l. Kafedra analiticheskoy khimii Kazanskogo khimiko-tekhnologicheskogo instituta imeni S.M.Kirova. (Iron-Analysis) (Boron hydrides)

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S/020/60/132/01/35/064 B011/B126

5.2400(A)

Mochalov, K. N., Gil'manshin, G. G.

TITLE:

AUTHORS:

The Polarographic Behavior of Sodium-, Potassium-, and Lithium Boron Hydrides

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 1, pp. 134-137

TEXT: The views on the theme in the title are directly contradictory (Refs. 6,7) in the few (2) relevant works. In their experiments the authors used commercial (~80%) and purified (98%) boron hydrides. They used the micropolarograph of Heyrovský, model M-102 with a dropping mercury electrode. For NaBH4 in NaOH they have found a single wave, namely that of the ion BH4. Its nature was determined by further experiments (Fig. 1, Table 1). The position and character of these waves remain practically unchanged through variations in the concentration of boron hydride and through changes in the composition of the background. This result disproves the data of R. L. Pecsok (Ref. 6). The authors studied the dependence of the height of the boron hydride wave on the concentration of BH4 ions. The dependence is linear between 10⁻⁹ and 10⁻¹ moles/1. The limiting current here is no complete diffusion current. The metallic boron hydrides

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The Polarographic Behavior of Sodium-, Potassium-, and Lithium Boron Hydrides

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decompose relatively quickly in aqueous, especially in acid solutions, so that the polarographing is made very difficult. Therefore, the solutions used were prepared with the use of the relevant alkalis and alkaline borate buffer mixtures. From this it was established that, for the same concentration, the wave height is highly dependent on the pH in the solution. With a pH above 12.5 the boron hydrides are relatively stable, but the wave was practically missing altogether. Thus, it follows that in reality the wave does not belong to the BH4 ion, but to one of its hydrolysis products. These occur in several stages in one of which diborane is given off under certain conditions. However, diborane can react with alkalis and form the so-called hypoborates (see scheme). Gaseous diborane was passed through concentrated KOH-, NaOH-, and LiOH solutions when cooled. The resulting hypoborate solutions showed the same wave with $E_1/2$ = = -0.6 v. The dilution of these solutions led to a proportional decrease in wave height. When the solution is left standing, the height of the "hypoborate" wave, exactly as the "boron hydride" wave, decreases according to an equation of the first order (Ref. 8). When the solutions are boiled and strongly acidified, the wave disappears after the destruction of the hypoborates. Thus, the "boron hydride" wave is basically a "hypoborate" wave. It is difficult to say to which of the 3 hypoborates the wave belongs. However, it cannot belong to the BH (OH)

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The Polarographic Behavior of Sodium-, Potassium-, and Lithium Boron Hydrides

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ion. It is more likely that the BH(OH); ion is responsible for the wave. The electrodic reaction which the said wave causes can obviously not (contrary to Pecsok) be brought about by oxidation of the BH, ions, but must be due to the oxidation of the hypoborate ions (see scheme). Of the two schemes set out, the second is more likely. The following are mentioned: D. Il'kovič, A. F. Zhigach, V. I. Mikheyeva, V. Yu. Surs, Kh. V. Shifrin, A. A. Bogonostsev, O. I. Rusetskiy, and T. N. Dymova. There are 1 rigure, 1 table, and 14 references, 4 of which are Soviet.

ASSOCIATION: Institut obshchey i neorganicheskoy khimii Akademii nauk SSSR (Institute of General and Inorganic Chemistry of the Academy of Sciences, USSR)

PRESENTED: December 26, 1959, by I. I. Chernyayev, Academician

SUBMITTED: December 15, 1959

Card 3/3

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37638 \$/076/62/036/005/013/013 B101/B110

AUTHORS:

Mochalov, K. N., and Gil'manshin, G. G.

TITLE:

Polarographic study of alkali-metal boron hydrides

PERIODICAL:

Zhurnal fizicheskoy khimii, v. 36, no. 5, 1962, 1089-1094

TEXT: With a view to elucidating the processes that occur in the hydrolysis of NaBH₄, KBH₄, LiBH₄, and C_5 BH₄ solutions of these boron hydrides were examined polarographically in aqueous solutions by using a electrode, and a calomel reference electrode. The boron hydrides were prevented from decomposing by being dissolved respectively in 0.2 M NaOH, and LiOH. Investigation of the polarization within the range +0.2 kOH, and room temperature showed that, unlike what had been found by wave, namely $E_{1/2} = -0.65$ v. Impurities (e.g., sodium alcoholates) did not affect $E_{1/2}$. As a result of hydrolysis of the boron hydride, the wave amplitude decreased with time. This process can be accelerated by

Polarographic study of alkali- ...

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acidification, heating, or catalysis. Different backgrounds did not affect the wave. The wave $E_{1/2} = +0.105 - 0.013$ pH found by Pecsok is attributed to the anodic dissolution of Hg in an alkaline medium. Results: (a) Change in pH and temperature (15-35°C) do not affect the wave potential. The wave amplitude of NaBH, and KBH, in the range of 1.10^{-3} to 1.10^{-4} moles/l is a linear function of the concentration of boron hydride. (b) The wave amplitude decreases with increasing pH. At pH > 12.5 - i.e., if no hydrolysis takes place at all - no further waves will appear. Polarographic analysis of CaH2 and B2H6 showed no wave with the first compound, but $E_{1/2} = -0.65$ v when $B_{2}H_{6}$ was bubbled through NaOH or KCH. From this it is concluded that the wave is due to the resulting hypoborates. Polarographic results obtained from stepwise hydrolyzed LiBH4 and from NaBH(OCH3)3 indicate that the wave is not produced by the BH_4^- ion but by the $BH(OH)_3^+$ ion. Analysis of the polarographic kinetic curves for NaBH₄ and KBH₄ confirmed that the hydrolysis of these compounds followed the theory of the kinetics of consecutive processes. There are Card 2/3

S/C76/62/036/CO5/O13/C13 B101/B110

Polarographic study of alkali- ...

4 figures and 2 tables. The most important English-language reference is: R. L. Pecsok, J. Amer. Chem. Soc., 75, 2862, 1953.

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut im. S. M.

Kirova (Kazan' Institute of Chemical Technology imeni S. M.

Kirov)

SUBMITTED:

August 19, 1961

Card 3/3

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134820012-9"

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MOCHALOV, K.N.; BASHKIROVA, T.I.

Reactions of sodium borohydride with solutions of cadmium salts.

Trudy KKHTI no.30:178-184 '62. (MIRA 16:10)

MOCHALOV, K.N.; SALIKHOV, S.G.

Study of metal borohydrides and related compounds by the method of nuclear magnetic resonance (a preliminary report). Trudy KKHTI no.30:282 '62. (MIRA 16:10)

MOCHALOV, K.N.; POLIKARPOV, S.I.

Heavy metal "borides," new hydrogenation catalysts. Trudy KYHTI no.30:283-288 '62. (MIRA 16:10)

MOCHALOV, K.N.; SHIFRIN, Kh.V.; BOGNOSTSEV, A.S.

Hydrolysis of sodium borohydride. Zhur. fiz. khim. 37 no.11: 2404-2407 N'63. (MIRA 17:2)

1. Kazanskiy khimiko-tekhnologicheskiy institut.

ACCESSION NR: AP4016520

S/0195/64/005/001/0174/0177

AUTHOR: Mochalov, K. N.; Shifrin, Kh. V.; Bogonostsev, A. S.

TITLE: Kinetics of potassium borohydride hydrolysis

SOURCE: Kinetika i kataliz, v. 5, no. 1, 1964, 174-177

TOPIC TAGS: potassium borohydride, sodium borohydride, lithium borohydride, cesfum borohydride, alkali borohydride hydrolysis

ABSTRACT: The present work was prompted by the absence of data on KEH which is a much later discovered product than NaEH, but less known, although it is now industrially produced in the U.S.A. A study of KEH, and NaEH, hydrolysis in buffer borate solutions (as well as of Lieh, and CseH, carried out by G. G. Gil manshin in the laboratory of the Kazanskiy khimiko-tekhnologicheskiy institut (Kazan Chemical-Engineering Institute) showed that this reaction is practically independent of the cation action. Due to the proportionality of the reaction rate of the borohydride ion and the H ion, it follows that an intermediate complex is formed (EH,). Its

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ACCESSION NR: AP4016520

destruction may lead to borine BH₂ + H₂ which combines with water into BH₂(OH) and BH(OH)₂ and with OH - into hypoborates. Finally, in a strongly acidic medium, borine dimerizes with liberation of diborane B₂H₆. The complex character of hydrolysis was proven by polarographic studies made by Gil'Manshin and by a chromatographic study made by V. S. Khain. LiBH₁ has the greatest reducing capacity. However, the polarizing action of cations is leveled in an aquecus medium, explaining the same interaction rate of different alkali borohydrides with water. Orig. art. has: 2 figures, 12 formulas and

ASSOCIATION: Kazanskiy khimiko-tekhnologicheskiy institut (Kazan Chemical-Engineering Institute)

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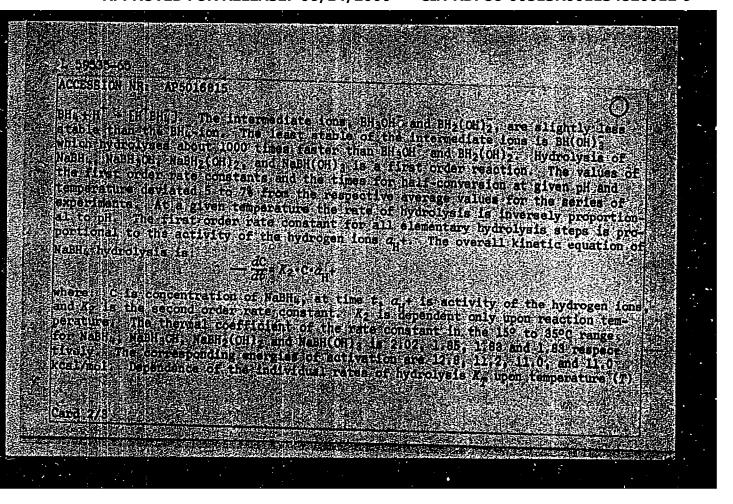
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MOCHALOV, K.N.; KHAIN, V.S.

Reaction of sodium borchydride with potassium ferricyanide.

Zhur. neorg. khim. 10 no.2:532-533 F 165. (MIRA 18:11)

1. Kazanskiy khimiko-tekhnologicheskiy institut imeni Kirova, kafedra analiticheskoy khimii. Submitted May 30, 1964.

Mochalow, K.N.; Khain, V.S.

Mechanism of ferricyaride ion reduction by sodium borchydride.

Zhur. fiz. khim. 39 no.8:1960-1764 Ag 165. (MIRA 18:9)

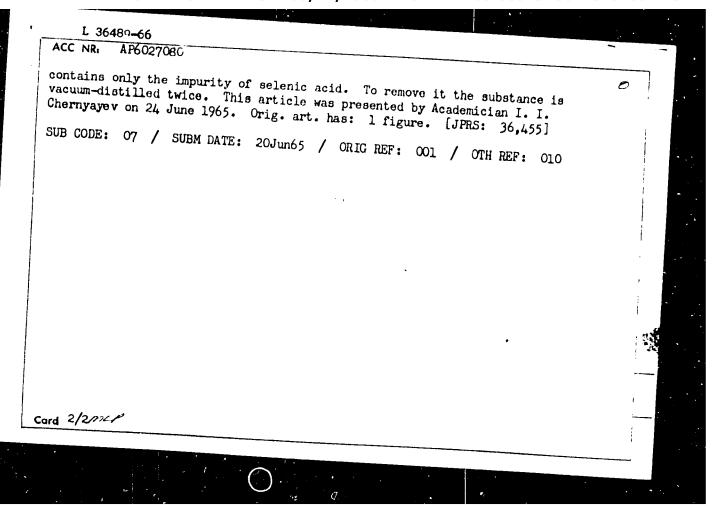
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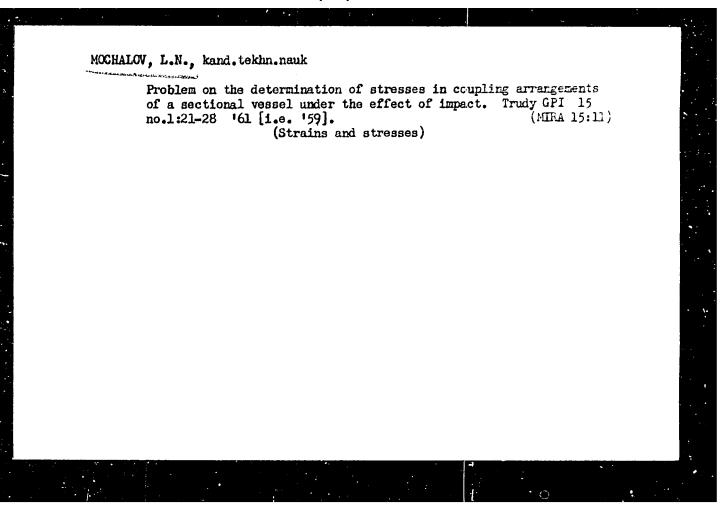
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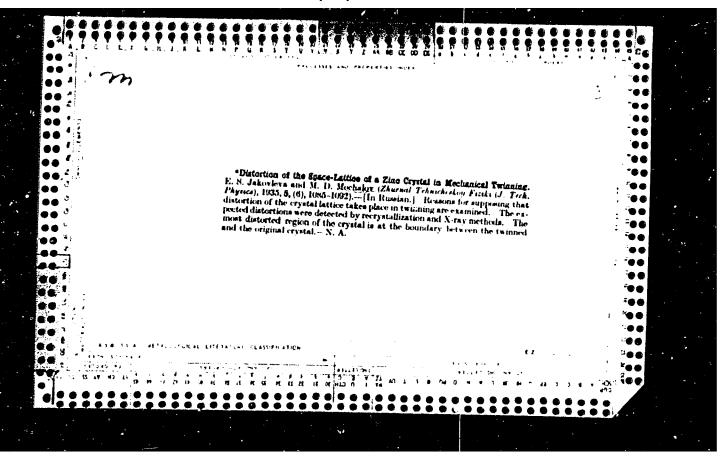
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L 36489-66 EWI (m)/EWP (t)/EII ISI (c) SOURCE CODE: UR/0020/66/167/002/0361/0364	12 %
AUTHOR: Mochalov, K. N.; Konrat'yev, S. N.; Blagoveshchenskaya, G. I.; Sidorov, Ye. Ye. ORG: Kazan' Chemico-Technological Institute im. S. M. Kirov (Kazansky khimiko-tekhnologicheskiy institut) TITIE: Preparation of pure selenium trioxide and some of its properties SOURCE: AN SSSR. Doklady, v. 167, no. 2, 1966, 361-364 TOPIC TAGS: selenium compound, chemical synthesis, dehydration, selenic acid, phosphorus oxide, chemical laboratory apparatus, chemical separation, chemical purity, vacuum distillation ABSTRACT: The Toul-Dostal method of synthesizing selenium trioxide, involving	
the dehydration of anhydrous selenic acid with phosphorus pentoxide: H2SeO4 +	
P205 -> Se03 + 2HPO3, was improved to give a more reliable and suitable method	
by omitting the use of a drying chamber.	
Phosphorus pentoxide and 98-100% selenic acid (without H2SeO3) are mixed in	
a 12: 10 weight ratio in the reactor section of a completely closed glass apparatus. After sealing of the leading tube the apparatus is connected to a vacuum pump, and the reaction mixture is heated to 140-145°. At this	
temperature and a pressure of 1-2 mm Hg the basic mass of selenum trioxide is separated. SeO3 vapors are condensed in a collector which is cooled with running water. After completion of the reaction necks to the collector	
are sealed and the cooler is removed. The selenium trioxide in the collector	
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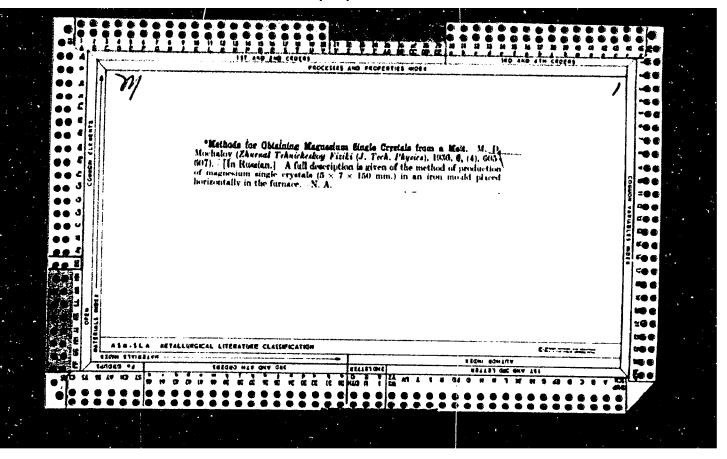


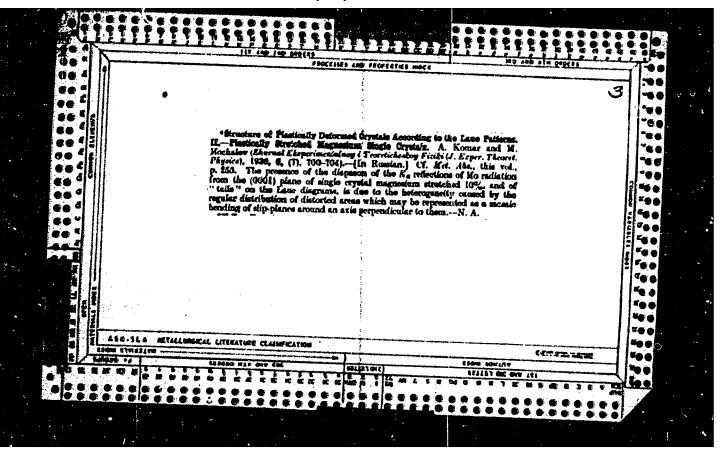
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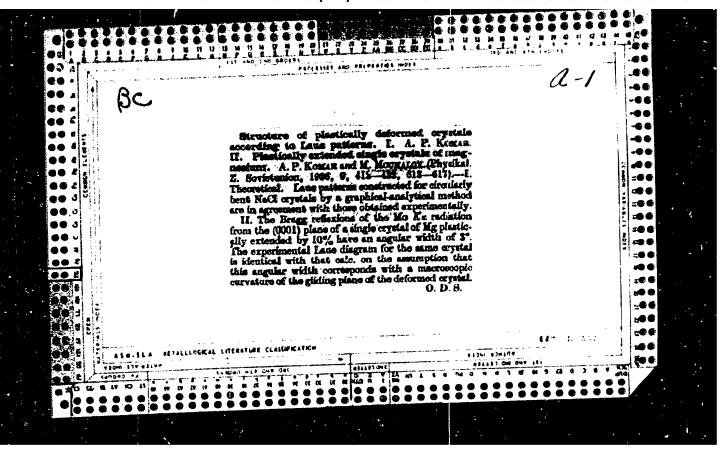
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KOMAR, A. P.; MOCHALOV, M. D.

Remote Control Regulator of the Vacuum for the Ionic X-Ray Tube

Zav. Labor. 7, 881, 1938.

"Effect of the Composition and Degree of Covier on the Electromagnetic Projection of Delring Winting Hoya." Confirmation Just U., Sveralovsk, 1-54. (RZERHEM, No 17, Sep 54)

SO: Sun 432, 29 Mar 55

AUTHOR: Mochalov, M. D.

SOV/126-6-5-18/43

TITLE:

The Effect of Composition and the Degree of Ordering on Galvanomagnetic Properties of Ordering Alloys (Vliyaniye sostava i stepeni poryadka na gal'vanomagnitnyye svoystva uporyadochivayushchikhsya splavov)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1958, Vol 6, Nr 5, pp 879-885 (USSR)

ABSTRACT: The author studied palladium-copper alloys which were prepared, homogenised and annealed in vacuo. Samples of alloys of the following compositions were prepared: 14.5% Pd, 85.5% Cu; 15.5% Pd, 84.5% Cu; 16% Pd, 84% Cu; 16.5% Pd, 83.5% Cu; 17.5% Pd, 82.5% Cu (all proportions are given in atomic percent). Cast ingots were homogenised at 1000°C for 10 hours. The ingots were rolled down to a thickness of 0.2 mm in several stages. In between these stages the samples were annealed for one hour at 800°C and quenched in water. The author measured the Hall constant R by the usual compensation method (error ± 6%). The electrical resistivity ? was measured by means of a Thomson bridge to within 0.9%. Cardl/4 All measurements were made at room temperature. Values

The Effect of Composition and the Degree of Ordering on Galvanomagnetic Properties of Ordering Alloys

of R and $oldsymbol{\varrho}$ were obtained both on increasing the ordering of the alloys and on decreasing it. In both cases values of R and P were found to lie on curves of the type shown in Fig.1. The degree of ordering in the alloys was not measured directly; the author took the value of the electrical resistivity as the criterion of ordering (Ref 5). Fig.1 gives the dependences of R and on the temperature of anneal for 14.5% Pd-85.5% Cu alloy. Fig.2 gives the variation of R and with copper content in ordered and disordered states. Fig. 3 gives the relationship between R and $\boldsymbol{\varrho}$ as a function of the degree of ordering for several of the alloys studied. Curves I, II and III represent 14.5% Pd-85.5% Cu, 17.5% Pd-82.5% Cu and 25.0% Pd-75.0% Cu alloys respectively. There are two groups of curves in Fig.3: group a represents the ordered state; group 6 - the disordered state. Fig.4 gives the dependence of ΔR_t on ΔQ_t as a function of the degree of ordering.

Card2/4 $\Delta R_t = R_\delta - R_t$; $\Delta \rho_t = \rho_\delta - \rho_t$,

The Effect of Composition and the Degree of Ordering on Galvanomagnetic Properties of Ordering Alloys

where R_{δ} and Q_{δ} are the values for the disordered state, while R_t and Q_t are the values for the ordered state of the alloys. Fig.5 gives the dependence of α (where α is the angle of the slope of the straight lines $\Delta R_t = f(\Delta Q_t)$) on the amount of copper in the alloys. The following conclusions are made.

1. Transition from the disordered to the ordered state in palladium-copper alloys is accompanied by an increase of the range of variation of R and a decrease of the range of variation of Q.

2. Variation of R and Q in ordering of the alloys cannot be explained on the basis of the elementary theory of metals which relates R, Q and electron density.

3. Changes in the ionic distribution in the crystal lattice of the palladium-copper alloys, which occur on ordering, are accompanied by an increase of the number of positive current carriers and an increase in the number of centres which are responsible for incoherent scattering of these carriers.

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The Effect of Composition and the Degree of Crdering on Galvanomagnetic Properties of Ordering Alloys

4. The observed linear relationship between R and Q during the process of ordering is due to the constancy of the ratio of the numbers of positive current carriers and incoherent scattering centres produced during ordering.

5. The latter ratio varies with the alloy composition.
6. Departure from linearity of the relationship between R and Q was observed at higher degrees of ordering; it is due to interaction of ordered regions.
There are 5 figures and 8 references, 2 of which are Soviet, 3 German, 1 English and 2 translations from English.

ASSOCIATION: Institut fiziki metallov Ural'skogo filiala AN SSSR (Institute of Metal Physics, Ural Branch of the Ac.Sc., USSR)

SUBMITTED: May 7, 1957

Card 4/4

Fungnov, A. (2., _lochslov, ". D., _locidov, T. J. drawful of the cooperated testion of Deflets eving Comma to, tion in Setatrone (Grafiki ekspoziteše v setatebnog 5 7 7 1 ramma- Wirktoniotie, Tevol (sq. Lation tomater, 100), Tol. (4, Er (, pr. 186-188(1603)) FRIETOL: larer he wrest ethors are listed and grath are given les to grandiation in hetatrons with verious electing empre 3 980 340M t see of the chotons. In evolution of the data riven in these present indicates that some difficulties exist, since no cowhich is to convert the eraltivity velocity, and Soviet films have afferent mensitivities. or this reason \mathbf{r} , and \mathbf{r} , we desire those the experiments reported in this poler used constitution control falm . The productive and the resulting the heart given. The graphs obtained in The ork was different Nos those obtained by the Pereistic strong in that the marken on w. for a roll ton a roy of I care assumed and thus save a more negative decomination of the domagn. A. T. Ploy, N. .. Oraclination of 1. 7.

low (a. 1-) form, that in irradicting the hotomatrio.

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8/596/61/000/000/001/003 D217/D304

AUTHORS:

Buzynov, A. Ye., Yekhlakov, A. D., Motova, Z. A., Motha-

lov. M.D., and Fakidov, I G.

TITLE:

Action of γ -irradiation from the betatron on X-ray films, and the constitution of exposure graphs of

irradiated steel

SOURCE:

Akademiya nauk SSSR. Institut fiziki metallov Betatronnaya gamma-defektoskopiya stali. Moscow, 1961. 10 - 25

TEXT: A sensitometric investigation of the action of γ-rays on several types of films was studied and the distribution of the inten sity of irradiation along the cross section of the beam was measured. German films made by Agfa (GDR), Laue. Sino Texo-R. Texo-S and the high sensitivity Russian films of factory no 8. "Rentgen-X opytnyy" and "Rentgen-X-opytnyy" sprayed from one side were in vestigated. From the sensitometric results obtained, exposure graphs were plotted. These, in conjunction with curves for the angular distribution of intensity and figures illustrating the dependence of

Action of γ -irradiation from . .

\$/596/61/000/000/00/001/003 D217/D304

exposure time of defects on the degree of blackening of the film enabled the exposures under various conditions of X-raying to be calculated It was found, that the experimental film "Rentgen-X" sprayed on both sides, was the most sensitive one with respect to γ-rays from the betatron. The German films Agfa. Laue. Agfa Sin: and Agfa Texo-R have similar sensitivity characteristics under si milar conditions The film Texo-S is somewhat less sensitive In tensifying screens considerably shorten the time of exposure. The and 2 mm front lead screens differ little from each other as to their action on the film. With an increase in thickness of the irradiated steel plates, the conventional characteristic curves of the films are displated in the direction of increasing exposure and change their general character, the linear portion of the surve decreasing in extent. The contrast range also changes somewhat. All imported films, when used in conjunction with the betatron, should receive longer exposures than those indicated by the manufacturer Curves were constructed for the dependence of the degree of black ening of the film on the distance from the center of the beam for various exposures in the center of the field of irradiation and for Card 2/3

Action of γ -irradiation from ...

\$/596/61/000/000/001/003 D217/D304

steel plates of various thicknesses (50 - 426 mm). Exposure graphs for the Agfa Texo-R film were constructed for several degrees of blackening. Graphs were constructed for two sets of screens used respectively for the determination of small defects (pores, cracks etc.) and for big casting defects. There are 13 figures. 4 tables and 19 references: 7 Soviet-bloc and 12 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: A.L. Pace, Non-destructive testing, 12, 1954, no. 2, 21, R Widerde, Non-destructive testing, 11, 1953, no. 4, 25; C.E. Juran, Non-destructive testing, 11, 1953, no. 8, 25; K. Nelson, Journal Sci. Instr., 33, 1956, no. 1.

Card 3/3

35012

S/596/61/000/000/002/003 D217/D304

1,8000

Buzynov, A-Ye., Yekhlakov, A.D., Mochalov, M.D., and AUTHORS:

Fakidov, I.G.

Experimental determination of the sensitivity of the TITLE:

photo-radiographic method of non-destructive testing by γ -irradiation and by irradiation from a betatron of 22 Mev

Akademiya nauk SSSR. Institut fiziki metallov Beta-SOURCE:

tronnaya gamma-defektoskopiya stali Moscow. 1961.

30 - 35

TEXT: The authors experimented with the models of defects in the form of cylindrical holes with fairly big diameters (10 mm), so that the degree of diffuseness of the edge was considerably less than the radius of the hole. The sensitivity was determined for defects of various depths ΔL , measured along the beam, and for various depths ΔL rious total thicknesses of irradiated plates L. The difference in thickness between sound and faulty places was of relatively little

Card 1/3

Experimental determination of the

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significance, owing to the small size of the defects. It can, therefore, be assumed that changes in the characteristic curves of the film used would be insignificant for variations in thickness of this order. A graduated non-destructive testing machine was specially made for the investigation. The apparatus was made in the form of eight segments of a disc, each differing from the preceding one in thickness by 1 mm (except for the first and eigth, which differed from each other by 7 mm) An annular hole of radius 4 cm was drilled through the eight segments; the center of the annulus coincided with that of the disc, and the diameter of the hole was 10 mm. The holes and steps were intended to simulate defects of definite dimensions The apparatus was placed in front of the irradiated steel plates, and orientated so that its center should coincide with the axis of the betatron beam. Under these conditions, the defects received γ -rays of equal intensity, and shadow images thereof were arranged along the circumference of the film. For exposure an Agfa Texo-R film, 15 x 20 cm, was placed between the intensifying screens In order to minimize the dispersed background radiation a lead screen, 3 mm thick: was placed behind the rear fluorescent screen,

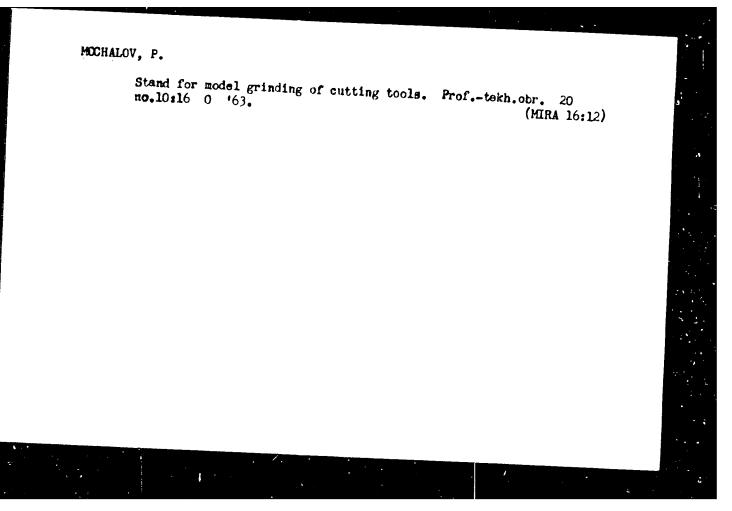
Card 2/3

X

Experimental determination of the .. $\frac{S/596/61/000/000/002/003}{D217/D304}$

and a lead screen, 25 mm thick, was placed behind the adaptor. Steen plates of various thicknesses were used as specimens for irradiation. It was found that the relative sensitivity of the radiographic method of betatron testing increases with increase in thick ness of the steel plates. The dependence of the magnitude of the smallest detectable defect on the thickness of the irradiated steel plates was established. The size of the smallest detectable defect depends on the thickness and combination of intensifying screens. There are 8 figures and 10 references: 1 Soviet-bloc and 9 non-Soviet-bloc. The 4 most recent references to the English language publications read as follows: H. Crainer, Non-destructive testing. 15, 1957, no. 4, 234; R. Widerde, Non-destructive testing, 12, 1954, no. 4, 27. A.L. Pace, Non-destructive testing, 12, 1954, no. 2, 21, E.A. Burril, Non-destructive testing 11, 1952, no. 2, 23.

Card 3/3



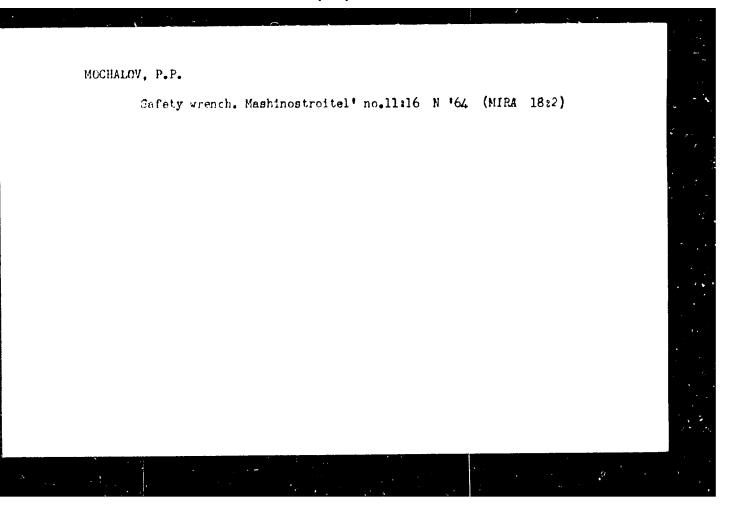
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134820012-9"

SUGEYKO, V., prepodavatel'; MOCHALOV, P.

Universal and demonstration stand. Prof.-tekh. obr. 22 no.6.

21 Je '65. (MIRA 18:7)

1. Sel'skoye professional'no-tekhnicheskoye uchilishche No.3, Berdichev (for Sugeyko).



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CIA-RDP86-00513R001134820012-9

L 40915-66 ENT(d)/ENT(m)/ENP(f)/ENP(c)/ENP(v)/T/ENP(t)/ETI/ENP(k)/ENP(h)/ENP(l)
ACC NR: AP6020739 IJP(c) JD/HN/JH SOURCE CODE: UR/0136/66/000/006/0072/0076

AUTHOR: Mochalov, P. P.; Dogadin, B. V.; Partin, I. A.

ORG: none

TITLE: Adaptation of plant equipment for single sheet annealing of aluminum alloys

SOURCE: Tsvetnyye metally, no. 6, 1966, 72-76

TOPIC TAGS: aluminum alloy, annealing, metallurgic furnace

ABSTRACT: The authors describe basic designs and subsequent in-plant modifications of KAPZ-5 and KAPZ-7 conveyor type annealing furnace systems, capable of annealing sheets 0.8 to 3.5 mm thick and with maximum dimensions of 2000x5000 and 2000x7000 mm respectively. Two chain conveyor systems, powered by a single P-91 32-kw d-c motor, transport each sheet separately through a rectangular vertical hot air furnace chamber. The sheet suspension system is treated in detail. The overall installation is easily incorporated into a factory flow line. Productivity is 1.5 to 3.5 t/hr, depending on the thickness of the 7000 mm sheet. The reject factor averaged 0.22%. Temperature gradients across the annealed sheet did not exceed 3 to 5C. Major components of the system are described and illustrated. Material specifications are given for parts subject to significant wear and temperature variations.

Card 1/2

UDC: 669.716:621.78

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S. A. Baum, M. K. Gur'yev, A. V. Kizilov, Ye. Ya. Osipov, A. P. Chernoskutov, A. Nadezhin, B. P. Skachek, N. V. Martynov, I. I. Ken, B. V. Kulygin, Ye. M. Ivanov, C. Dymov, M. I. Kudryavtsev, and A. I. Nabatchikov took part in the work. Orig. art. has	A. G. D. s:
4 figures. SUB CODE: 13/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 000	, ·
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Card 2/2 11b	

MOCHALOV, P. V.

MOCHALOV, F. V. - "Coagulating and Sorptive Stability of Hydrosols of Polystyrol." Sub 19 Hov 52, Moscow Order of the Lenin Chemicotechnological Inst imeni D. I. Mendeleyev. (Dissertation for the Degree of Candidate in Chemical Sciences).

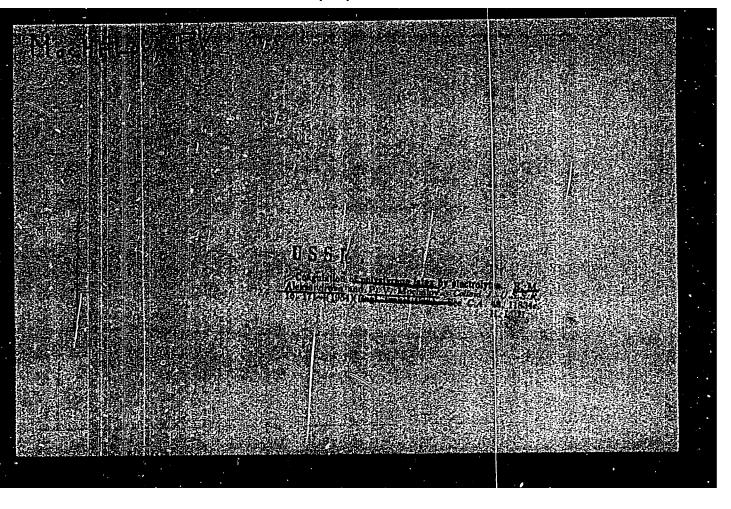
SO: Vechernaya Moskva January-December 1952

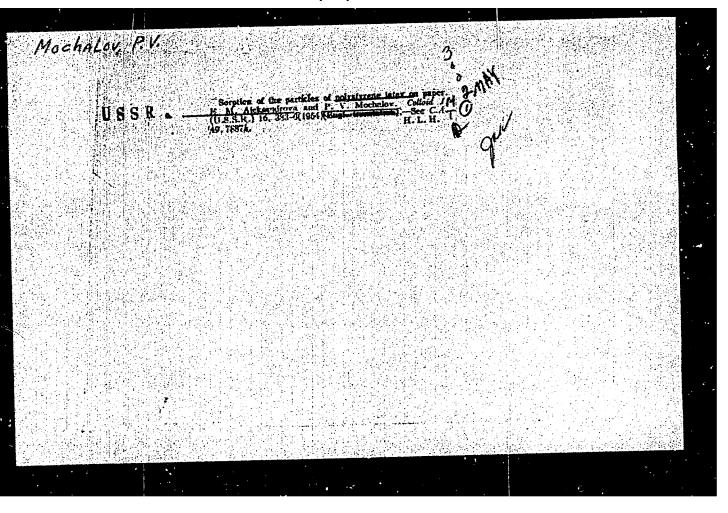
ALEKSANDROVA, Ye.H.; KOCHALOV, P.V.

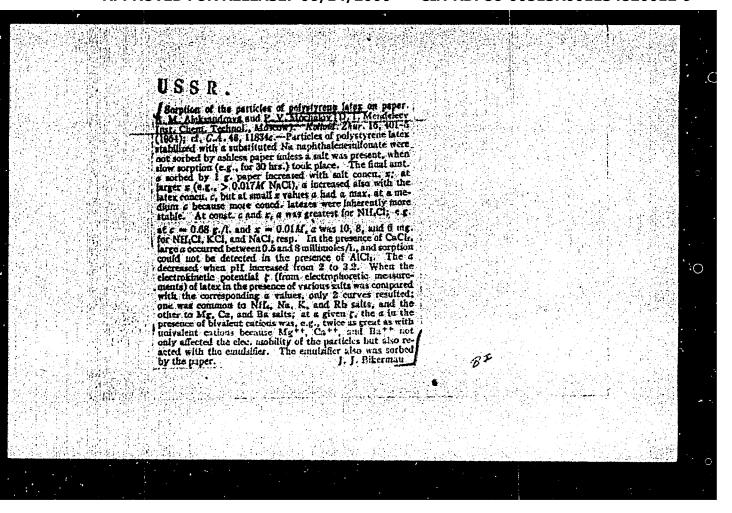
Coagulation of polystyrene latexes by electrolytes. Foll.zhur. 16 no.3:161-165 '54. (KLRA 7:7)

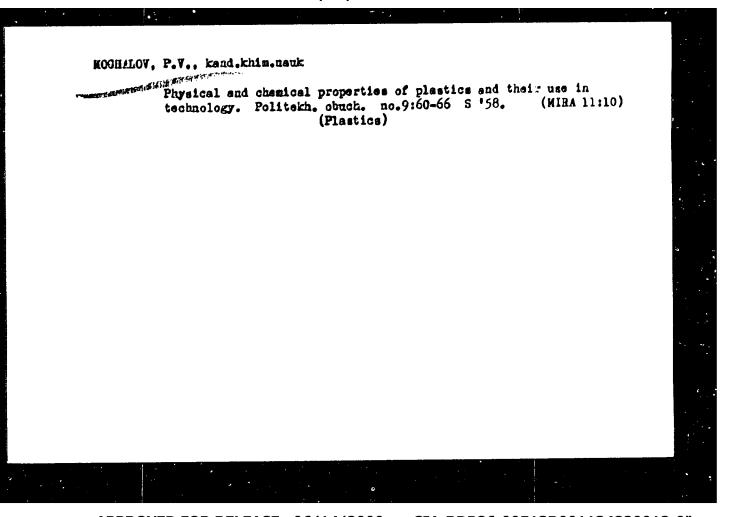
1. Moskovskiy khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva, Laboratoriya kolloidnoy khimii. (Coagulation) (Rubber, Synthetic)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R001134820012-9









MOCHALOV, R.V. (Chita)

Practical work of the sixth grade students in studying a measuring glass. Fiz. v shkole 22 no.3:86-87 My-Je '62. (MiRA 15:7) (Mensuration—Study and teaching)

SOV/124-58-4-4570

Translation from: Referativnyy zhurnal Mekhanika, 1958, Nr 4, p 130 (USSR)

AUTHOR: Mochalov, S. D.

TITLE: On the Problem of the Elastic plastic Wave Propagation Along a Bar

With a Variable Elastic Limit (K voprosu o raspostranen, uprugo plasticheskikh joln vdol sterzhnya peremennogo

predela uprugosti)

PERIODICAL: Uch. zap. Tomskogo un-ta, 1955, Nr 25, pp 49-67

ABSTRACT: The article considers a longitudinal impact at the butt end

of a semi-infinitely long bar which causes an elastic-plastic deformation. The elastic limit of the bar is considered to be variable, with either decreasing or increasing modulus of elasticity along the direction of the wave propagation. The subject work differs from that of H. A. Rakhamatulin's

(Prikl. matem. i mekhan. 1950, Vol 14, Nr 1) by the choice of the function giving the variation of the stress σ against the deformation \mathcal{E} . It is assumed that all the characteristic properties of the σ versus \mathcal{E} function pertaining to static loading and unloading remain valid during impact action;

Card 1/2 the solution is made by the method of characteristics. This

SOV/124-58-4-4570

On the Problem of the Elastic-Plastic Wave (cont.)

approach is generally accepted in such cases when a single dynamic curve is substituted for the static σ - versus - ε curve. The work of Lee (Lee, E. H., Quart. Appl. Math., 1953, Vol 10, Nr 4, pp 335-346, RZhMekh 1953, Nr 1, abstract 326), wherein the propagation of an elastic plastic wave is investigated in a short bar, covers some of the field of the author's work. A somewhat different approach to the solution of the problem and different results have been obtained by the reviewer for the case of the wave propagation in the direction of decreasing elastic limit (Prikl. material mekhan, 1954, Vol 18, Nr 2).

1. Beams--Vibration 2. Beams--Elasticity 3 Mathematics N. F. Lebedev

Card 2/2

124-57-2-2273

Translation from: Referativnyy zhurna!, Mekharika, 1957 Nr 2 p 116 (USSR)

AUTHOR: Mochalov, S. D.

TITLE: On the Repeated Impact on the End of a Semi-infinite Bar (O

mnogokratnom udare po kontsu poluheskonechnogo sterzhnya)

PERIODICAL: Uch. zap. Tomskego un-ta 1955, Nr 25, pp 68-76

ABSTRACT: Examination of the problem of the cumulative residual strain

In a bar subjected to repeated longitudinal impact loadings. This subject has been studied by Kh. A. Rakhmatulin (Pr.kl. matem. i mekhanika, 1946, Vol 10, Nr 3, 1950, Vol 14, Nr 1) under certain limitations imposed on the relationship between stress and strain. The author states that the abovement oned problem was solved by him under assumptions differing from those entertained by Rakhmatulin, but the results obtained by him do not differ from those tound by Rakhmatulin. There is no investigation of the propagation of the longitudinal waves in the bar. The author merely refers to another paper of his (Uch. zap. Tomskogo unital 1955, Nr 25). Also lacking is a detailed comparative analysis of the assumptions made in the

Card 1/1 present paper and these enteria ned h. Rakhmatul.n.

1. Beams--Stresser N. A. Kil chevsk.y

USSR / General and Specialized Zoology. Insects.

P

abs Jour: Ref Zhur-Biol., No 2, 1958, 6869.

nuthor: Zrazhevskaya, O. N., Kamyanoy, L. A., Mochalov, S.P.

Inst: Not given.

Title : From the Practice of Using the DDT Technical Sol-

ution in Diesel Fuel ..gainst Forest Pests.

Orig Pub: Lesn. kh-vo, 1956, No 10, 74-76.

Abstract: Plantings were sprayed with a 5% DDT solution in diesel fuel from a plane during the emergence of the pine silkworm in 1954 (40 and 20 litres per hectare). The larvae mortality was high (92%), in spite of the fact that during the spraying the meteorological conditions were unfavorable. The seat of the oak leaf-roller was sprayed with a 5% and 10% oil solution (20 litres per hectare); 99.3% and 99.5% of the larvae correspondingly perisbed.

ished. As a result of aerial treatment in favorable

Card 1/3

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USSR / General and Specialized Zoology. Insects.

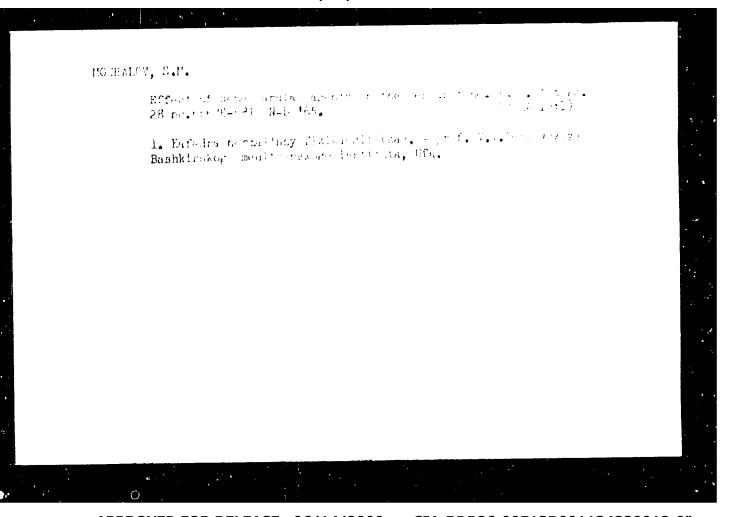
P

Abs Jour: Ref Zhur-Biol., No 2, 1958, 6869.

Abstract: weather with a 5% DDT dust and 12.5% HCCH dust (16-20 kg per hectare), 4% DDT solution (40 litres per hectare) and 2% DDT emulsion, 91-98% of the larvae of the annular silkworm (by dusting), 99.5% (by oil solution) and 95% and 96% (by emulsion) have been correspondingly destroyed. A production aerospraying in 1955 with a 5% DDT oil solution (20 litres per hectare) and a 1% DDT emulsion emulsion (25 litres per hectare) destroyed 99.6% and 86% of the pseudolarvae of the common pine saw-fly and 99% and only 10% of the larvae of the brown-tail moth. The cost of 20 kg DDT dust and 20 litres of 5% DDT solution for the treatment of one hectare was correspondingly 26 rubles, 60 kopecks and 15 rub. 16 kop. The loading of the An-2

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"APPROVED FOR RELEASE: 06/14/2000

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L 07413-67 EWI(m)/EWP(w)/EWP(t)/EII/EWP(k) IJP(c)) JD/HW/JH UR/0020/66/170/003/0540/0543 ACC NR. AP6032848 SOURCE CODE: AUTHOR: Belyakov, L. V.; Valitskiy, V. P.; Zlatin, N. A.; Mochalov, S. M. 79 ORG: Physical-Technical Institute im. A. F. Ioffe, Academy of Sciences SSSR (Fizikotekhnicheskiy institut Akademii nauk SSSR) TITLE: The melting of lead in a shock wave 27 SOURCE: AN SSSR. Doklady, v. 170, no. 3, 1966, 540-543 TOPIC TAGS: shock wave, x ray photography, high speed camera, pressure distribution, specific volume, thermodynamic analysis ABSTRACT: A study was made of adiabatic heating of lead to the fusion point during impact shock loading. Thermodynamic analysis of melting in a shock wave is presented and schematic drawings are given of pressure as a function of specific volume and distance. Thermodynamic equations are given for the specific work done by pressure to $\alpha\lambda$, where λ is the specific heat of fusion and α is a coefficient which depends on the shock pressure. Melting in a shock wave resulted in an entropy increase and a change in pressure distribution. These analytical results were checked by shock wave experiments on lead, in which high speed x-ray photographs were taken of the fractured ends of lead sheets. Impact velocities ranged from 1085 to 1570 m/sec. A sharp change in fracture appearance occurred at an impact velocity of 1250-1300 m/sec; this coincided

Card 1/2

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ACC NR: AP6032848

with a mass velocity of 700 m/sec. It is known that melting of lead occurs in a shock wave when the mass velocity becomes 650-700 m/sec. This velocity corresponded to a pressure of 230-250 x 10³ atm and to a 22-23% change in specific volume. X-ray photographs are also shown of fracture in 1 mm thick lead sheets at an impact velocity of 1340 m/sec, during time intervals of 15, 30, 45, and 54 usec. These tests show that the difference between the speed of the split flange (initial fracture condition) and the residual mass of the "whiskers", (final fracture condition) was 3%, verifying the specific work equation. Sheet thicknesses ranging from 0.5 to 3 mm were tested 15 usec after the moment of fracture at 1340 m/sec. Some of the sheets were covered with 0.05 mm thick aluminum foil during testing. The use of the foil changed the spacings of cleavage "whiskers'. These experiments confirmed that the originally postulated position of shock adiabates of lead in the solid and two-phase conditions was correct. A calculation of the relaxation time from the data gave 3 x 10-7 sec. Presented by Academician B. P. Konstantinov on 13 December 1965. Orig. art. has: 4 figures, 2 formulas.

SUB CODE: 11/ SUBM DATE: 27Nov65/ ORIG REF: 008/ OTH REF: 001

Card 2/2 pla

MOCHALOV, T. P. --

"The Operative Treatment and Clinical-Morphological Characteristics of Tuberculosis of the Knee Joint." Cond Med Oci, Central Inst for the Advanced Training of Physicians, 2 Nov. 54. (77, 22 Oct 54)

Survey of Scientific and Technical Fissertations Defended at USSR Higher Educational Institutions (10)

SO: Sum. No. 481, 5 May 75

KALEZHIRIN, Yu.: MOCHALOV, V.

Prevent explosions in ignition systems of the 8CK gas-engine compressors. Bezop.truda v prom. 5 no.6:35 Je *61. (MIRA 14:6)

1. Predsedatel komissii partiynogo kontrolya deyatel nosti administratsii po tekhnike bezopasnosti neftepromyslovogo upravleniya Bugul maneft (for Kalezhirin).

(Gas and oil engines--Safety measures)

MOCHALOV, V.A.; MATYUSHCHENKO, D.D.; KRIVITSKIY, A.A.; GLEZER, G.N.;

OPARIN, I.M.; KHEYMAN, E.L.; SMETNEV, N.N.; EPSHTEYN, A.L.;

GUSEV, B.YA.; LEYKIN, L.P.; MARCHENKO, G.M.; FISHKOV, V.G.;

SAPROVSKIY, S.V.; LYAKHOVSKIY, I.I.; SMELYAKOV, Ye.P.; VAYNTRAUB, D.A.; BUDYLIN, M.M.; NOTKIN, Ye.M.; KUR, G.Ye.; ARONSHTEYN, N.A.;

SUKHAREV, V.I.; VINOGRADOV, K.N.; BOBROVSKIY, N.S.

Innovators' certificates and patents. Mashinostroenie no. 2:

103-109 Mr-Ap '64. (MIRA 17:5)

14636-66 ENT(1)/EWP(@)/ENP(m)/ENT(m)/EPF(n)-2/EWA(d)/EWP(v)/EMP(j)/T/FCS(k)/ AP6003581 EWP(b)/ SOURCE CODE: ETC(m)-6/EWA(1) WW/RM/WH UR/0170/66/010/001/0003/0010 AUTHOR: Brdlik, P. M.; Mochalov, V. A. ORG: Institute of Structural Physics, Moscow (Institut stroitelinoy 81 TITEE: Experimental study of free convection with porous blowing and SOURCE: Inzhenerno-fizicheskiy zhurnel, v. 10, no. 1, 1966, 3-10 TOPIC TAGS: convective heat transfer, boundary layer suction, laminar ABSTRACT: The experiments were made on porous copper plates with a porosity coefficient of approximately 0.5. Five plates were used; they had an effective area of 200 x 300 mm and a thickness of approximately 10 mm. The plates were mounted flush to textolites (resin-impregnated laminated cloth) bodies having shaped grooves. Thus, it was possible to obtain a total height of the working section of 1000 mm and a width of 300 mm. Each textolite body with its plate was carefully sealed and had its own independent heating system and gas supply. Air was blown and sucked out by blowers. The rate of blowing and suction could be varied UDC: 536.25 0

14636--66 ACC NR: AP6003581 within wide limits. The plates were heated by radiant heaters. temperature of the blown and sucked air near the plates and at the inlet to the textolite body was measured with Chromel-Kopel thermocouples. Measurement of the temperature field in the boundary layer and of the well temperatures were carried out with a Mach-Zender Type IZK-11511 200 interferometer with a working field 225 + 5 mm in dismeter. The experimental unit was placed in a container which could be displaced smoothly in two vertical directions, so that any given section of the model under investigation could be observed. A figure shows a comparison of experimental and calculated data on the temperature distribution in the boundary layer, and a second figure shows a comparison of experimental and calculated values of the heat transfer coefficient during free convection with blowing and suction. The article concludes with a 1,55 theoretical consideration of the transition from leminar to turbulent flow and of the special characteristics of the boundary layer at large Orig. art. has: 19 formulas and [[06] blowing or suction values. figures. SUBM DATE: 28Sep65/ ORIG REF: 003/ SUB CODE: 20/ OTH REF: ATD PRESS: 4/90 Card 2/2/30

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HOCHALOV, Vasilly Dmitriyevich.; SIVKOV, K.V., prof., otv. red.; LANDA.

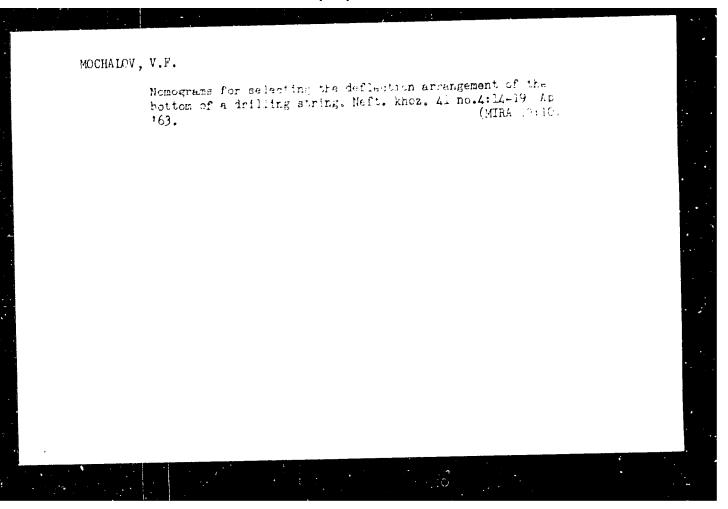
B.M., red. izd-va.; GUSEVA. I.B., tekha. red.

[Peasant economy in Transcaucasia at the end of the 19th century Krest'iamakoe khoziaistvo v Zakavkaz'e k kontsu XIX v.

Moskva, Izd-vo Akad. nsuk SSSR, 1958. 491 p.

(Transcaucasia--Peasantry)

(Transcaucasia--Peasantry)



HOCHALOV, V.I.

Improve the supply of drugs to the rural population. Apt.delo 4 no.2:3-8 Kr-Ap '55. (HLRA 8:5)

1. Zamestitel' nachal'nika GAPU Kinisterstva zdravcokhreniya RSFSR.

(PHRAMACY,
in Russia, rural)
(RURAL COMDITIONS,
rural pharm. in Russia)

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1 8951-66 EWT(d)/EWP(v)/EWP(ACC NR: AP5026513	k)/EWP(h)/EWP(1) SOURCE CODE: 1	TR/0286/65/000/019/00	142/0042
AUTHOR: Mochalov, Y. K.			20
ORG: none			B
FITLE: A device for magnetizing fannounced by Organization of the	ring-shaped permanent magn	nets. Class 21, No.	175139
Organizatelya gosudaratvennogo	komiteta po oboromnov tekh	nike SSSR)/	
SOURCE: Byulleten' izobreteniy :	i tovarnykh znakov, no. 19	, 1965, 42	
TOPIC TAGS: permanent magnet, m	agnetization, magnet coil		•
ABSTRACT: This Author Certifica permanent magnets. This device 157434. It is designed for the during a single working cycle.	was previously discussed in simultaneous magnetizing of The radial cores are place	n Author Certificate f two ring-shaped mad d in the magnetic cir	gnets rouit
from both of its end directions. mignets with a different number	This device provides sim	ultaneous magnetizin	E OT THO
opposite ends of the magnetic of	rouit are different.		
SUB CODE: 09, 13/ SUBM DATE:	248ep64		
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WESR/Engineering
Drills
Mining Equipment

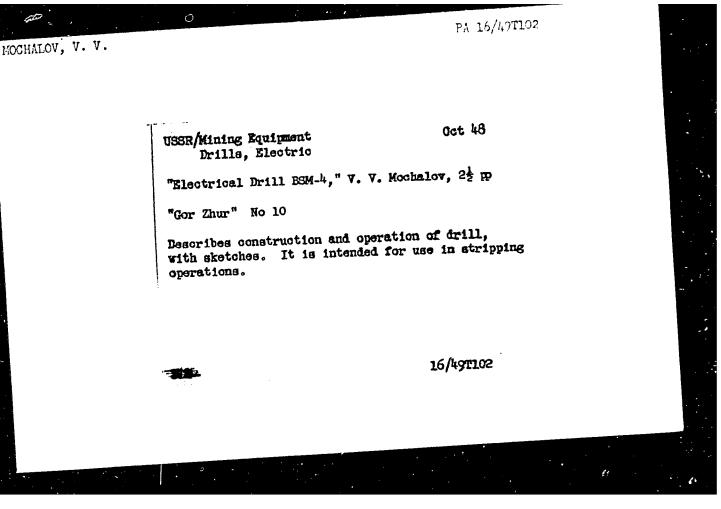
"Drill BSM-4," V. V. Mochalov, Mining Engr, 4 pp

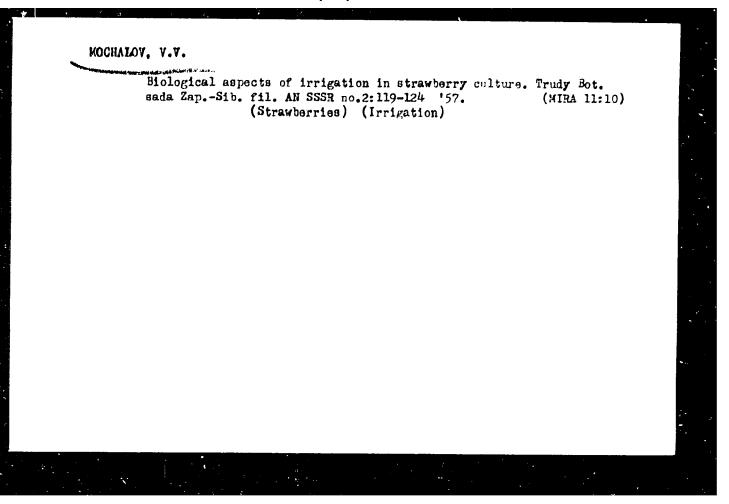
"Mekh Trud 1 Tyazh Rabot" No 8

Describes apparatus under: (1) kinematic system of apparatus, (2) operation and performance of BSM-4, and (3) functioning of apparatus when in use, and its productivity. Large-scale tests have been conducted to determine its operation under far northern conditions.

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MOCHALOV, V.V.

.4,

Optimum irrigation conditions for strawberries. Agrobiologiia no.6:941-942 N-D '59. (MIRA 13:4)

1. Novosibirskaya opytnaya stantsiya plodovo-yagodnykh kul'tur imeni I.V.Michurina.
(Strawberries) (Irrigation farming)

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Cand Agr Sci - (diss) "Effect of soil moisture on the growth and fruitbearingness of strawberry plants." Omsk, 1961. 15 pp; (Author-indexed List of Dissertations Defended at the Omsk Agricultural Inst imeni S. M. Kirov); 150 copies; free; (KL, 6-61 sup, 232)

CHEPIKOV, A.K., kand.sel'skokhoz.nauk; MOCHALOVA, T.Ya., kand.sel'skokhoz.nauk; MOCHALOV, V.V., starshiy nauchnyy sotrudnik; ZHEVLAKCV, V.V., agronom-pitomnikovod

Is the bacterial crown gall harmful? Zashch. rast. ot vred. i bol. 6 no.3:17-18 Mr '61. (MIRA 15:6) (Crown-gall disease)

KUPEPMAN, P.I.; GRYAZNOV, N.S.; MOCHALOV, V.V.; FROLOV, V.V.; MUSTAFIN, F.A.; PUSHKASH, I.I.; SLAVGORODSKIY, M.V.; LAZAREV, B.L.; BORISOV, V.I.; Prinimali uchastiye: CHERKASOV, N.Kh.; ZABRODSKIY, M.P.; RYTCHENEO, A.I.; RUTKOVSKAYA, Ye.N.; SAITBURGANOVA, N.I.; SHTAGER, A.A.; SHISHLOVA, T.I.; BUDOL', Z.P.; MEN'SHIKOVA, R.I.; GORELOV, L.A.; AGARKOVA, M.M.; KOUROV, V.Ya.; KOGAN, L.A.; EEZDVERNYY, G.N.; POKROVSKIY, B.I.

Effect of the lengthening of the coking time on the coke quality and testing of coke in the blast furnace process. Koks i khim. no.9: 23-28 '63. (MIRA 16:9)

1. Vostochnyy uglekhimicheskiy institut (for Kuperman, Gryaznov, Mochalov, Kogan, Bezdvernyy, Pokrovskiy). 2. Ural'skiy institut chernykh metallov (for Frolov). 3. Nizhne-Tagil'skiy metallurgicheskiy kombinat (for Mustafin, Pushkash, Slavgorodskiy, fazarev, Cherkasov, Zabrodskiy, fytchenko, Rutkovskaya, Saitburganova, Shtager, Shishlova, Budol', Men'shikova).

4. Koksokhimstantsiya (for Borisov, Gorelov, Agarkova, Kourov).

(Coke-Testing)

KONONOV, Vladimir Pavlovich; MOCHALOV, Vladislav Yevgen'yevich; ROSTIK, Klavdiy Mikraylovich; TISHKOVETS, I.V., otv. nauchn. red.; IURANDINA, L.A., red.

[Repair of ship systems and piping] Remont sudovykh sistem i truboprovodov. Leningrad, Sudostroenie, 1965. 231 p. (MIRA 18:10)

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Apple

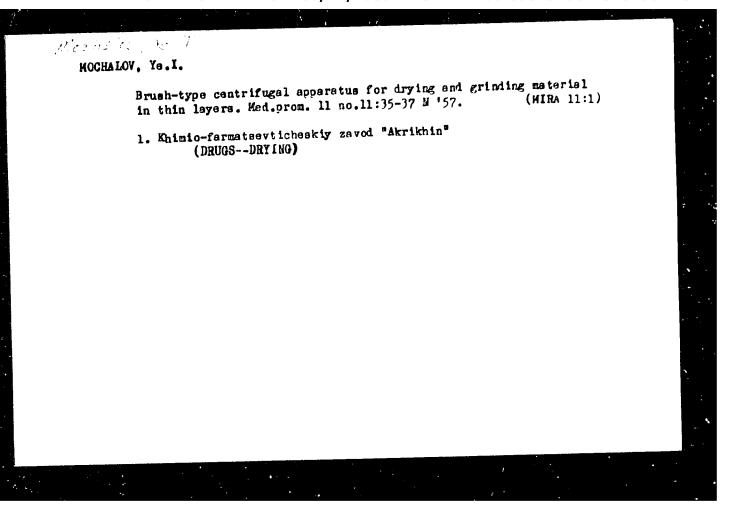
Accelerated growth of apple seedlings. Sad i ng. No. 2, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

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AUTHOR: Mochalov, Yu.A.

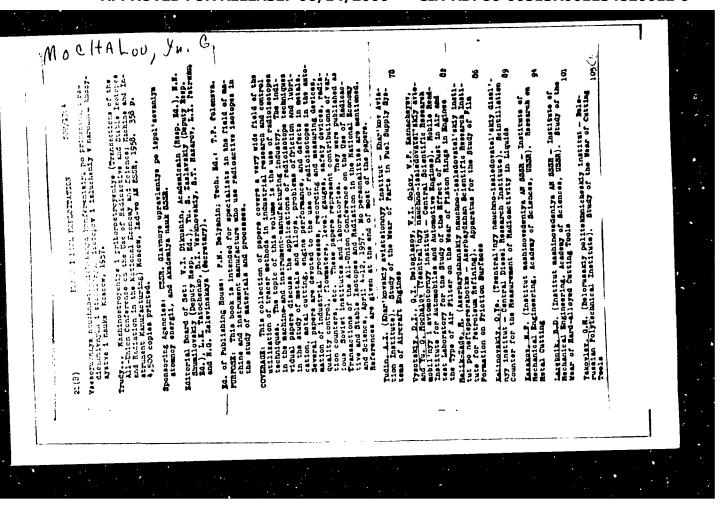
TITLE: Ideal cycle of gas turbine unit p-const with intermediate regeneration

PERIODICAL: Referativnyy zhurnal. Otdel'nyy vypusk. 49. Turbostroyeniye, no. 2, 1963, 13, abatraot 2.49.79. (Tr. Kazakhsk. s.-kh. inta, v. 8, no. 3, 1960, 133 - 146)

TEXT: It is suggested using the intermediate regeneration with the purpose of raising the optimum pressure increase degree in the cycle and to raise by this the limit power of the gas turbine unit. A theoretical investigation of the gas turbine unit cycle with intermediate regeneration was carried out. It is asserted that such a cycle enables one to control the gas turbine unit power without impairing the economy on account of the reduced degree of regeneration. Furthermore, at intermediate regeneration when gas is taken to the regenerator from the intermediate stages of the turbine, the volume and weight of the generator are lower than in the conventional regeneration cycle.

[Abstracter's note: Complete translation.]

[Card 1/1]



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1. Chernigovskiy otdel sel'akokhozyayetvennoy mikrobiologi virusologil i immunologii Ukrainskogo nauchno-iusladovatal - akogo instituta zemledeliya, g. Chernigov.

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1. All-Union Scientific Research Institute of Fertilizers and Agronomical Soil Sciences, Moscow.

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S0: U-3042, 11 March 53, (Letopis 'Zhrmal 'nykh Statey, Mo. 9, 1040'.

OYSTRAKH, D.O., professor; KOCHALOVA, A.G., dotsent (Astrakhan')

Pulmonary hemorrhage in periarteritis nodosa. Elin.med., 35 no.4:
113-116 Ap '57. (KLRA 10:7)

1. Iz kafedry fakul'tetakoy terapii (zav. - prof. D.G.Oystrakh)
i kafedry patologichsakoy anatomii (zav. - prof. M.S.Brumshtayn)
Astrakhanakogo meditsinskogo instituta (dir. - dotsent S.V.Zakharov)
na baze Pervoy oblastnoy klinichsakoy bol'initay (glavnyy vrach zasluzhennyy vrach RSFSR A.E.Belyayeva)

(PERIARTERITIS MODOSA, compl.

pulm. hemorrh.
(LUNGS, hemorrh.
caused by periarteritis nodosa)

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Mochalova, A.V. "Treating croup inflammation of the lungs by blood transfision," Ferelivaniye krovi, Collection 3, (Ivanovo, 194, 1, 92-101.

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